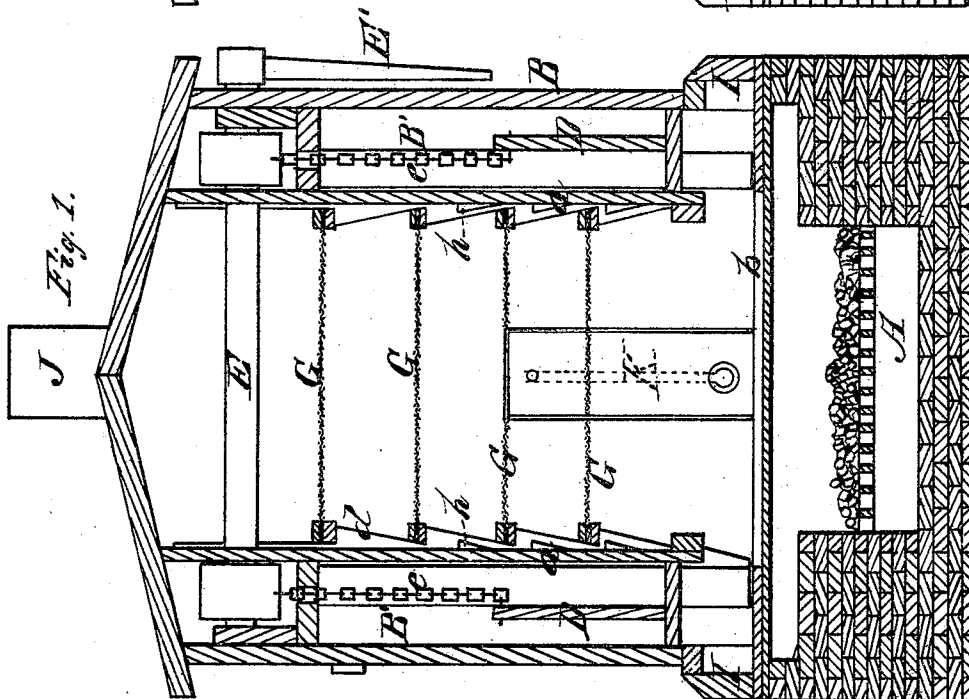
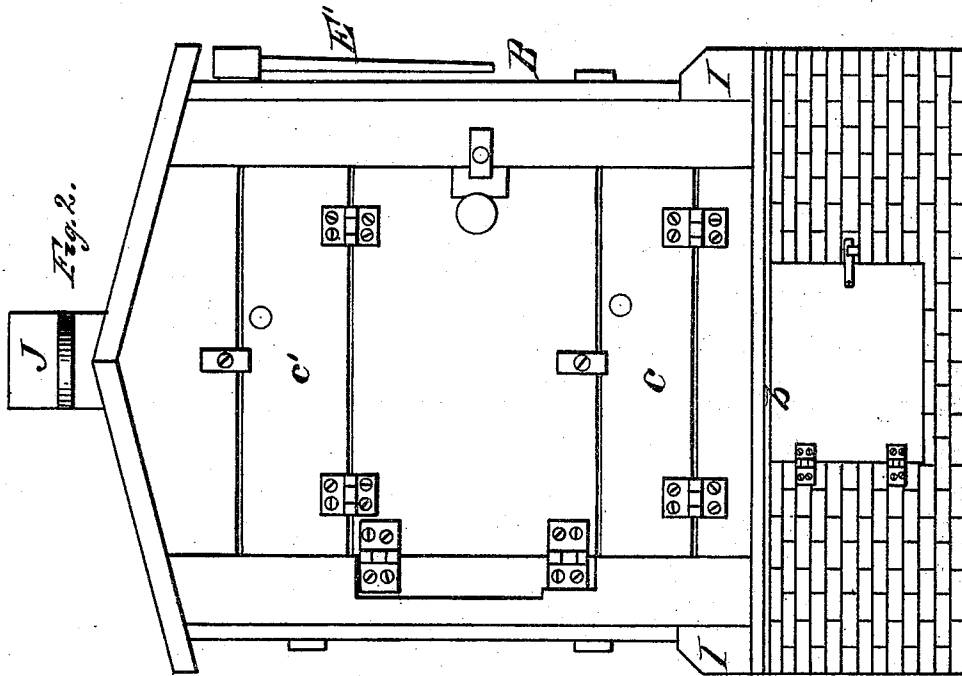


S. W. CRAVEN.
DRYING-HOUSE.

No. 179,275.

Patented June 27, 1876.



WITNESSES

Eng. H. Johnson
E. H. Bates

INVENTOR

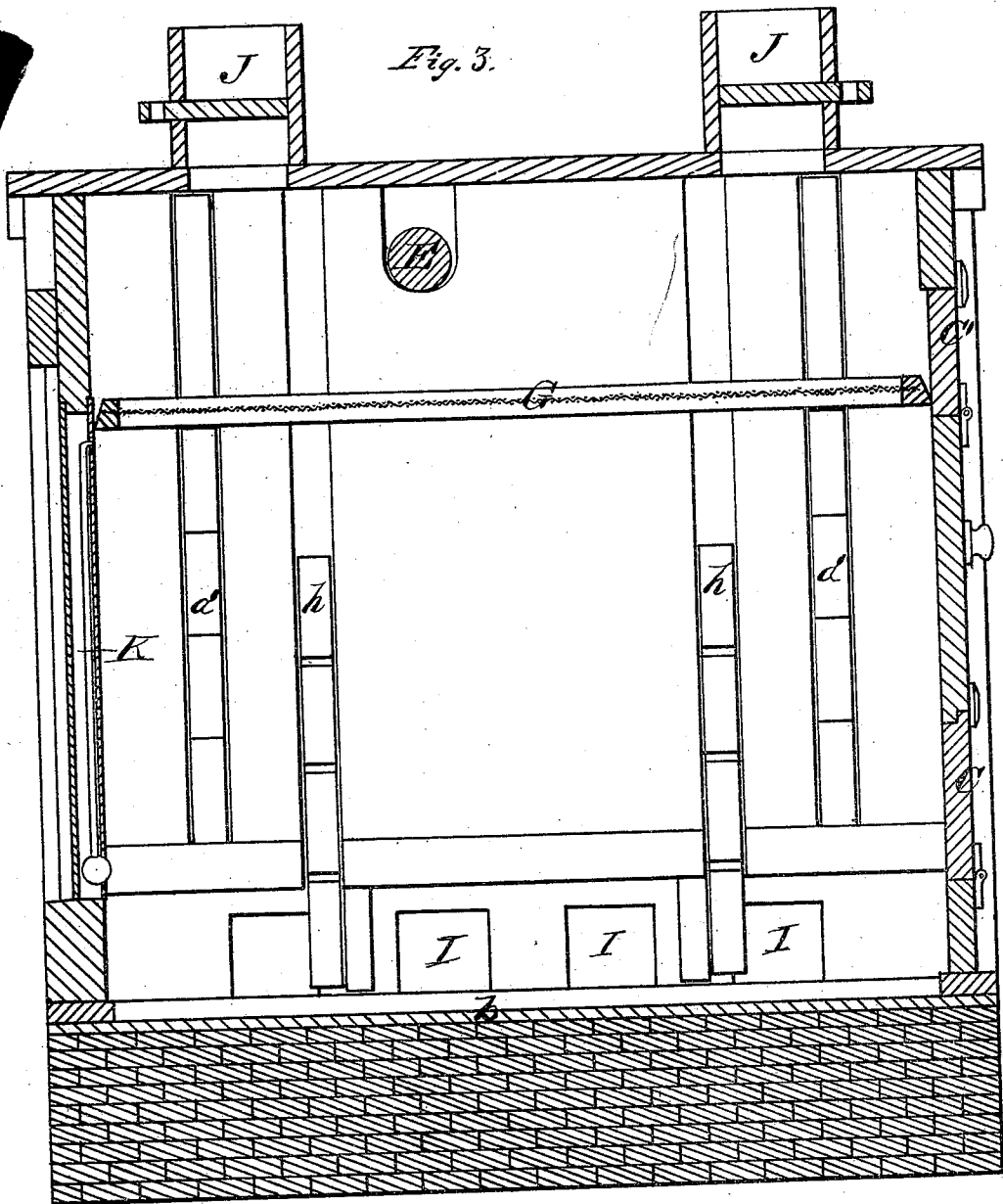
Samuel W. Craven
Chipman and Hosmer & Co.

ATTORNEYS

S. W. CRAVEN.
DRYING-HOUSE.

Patented June 27, 1876.

No. 179,275



WITNESSES

Eugene W. Johnson
E. H. Bates

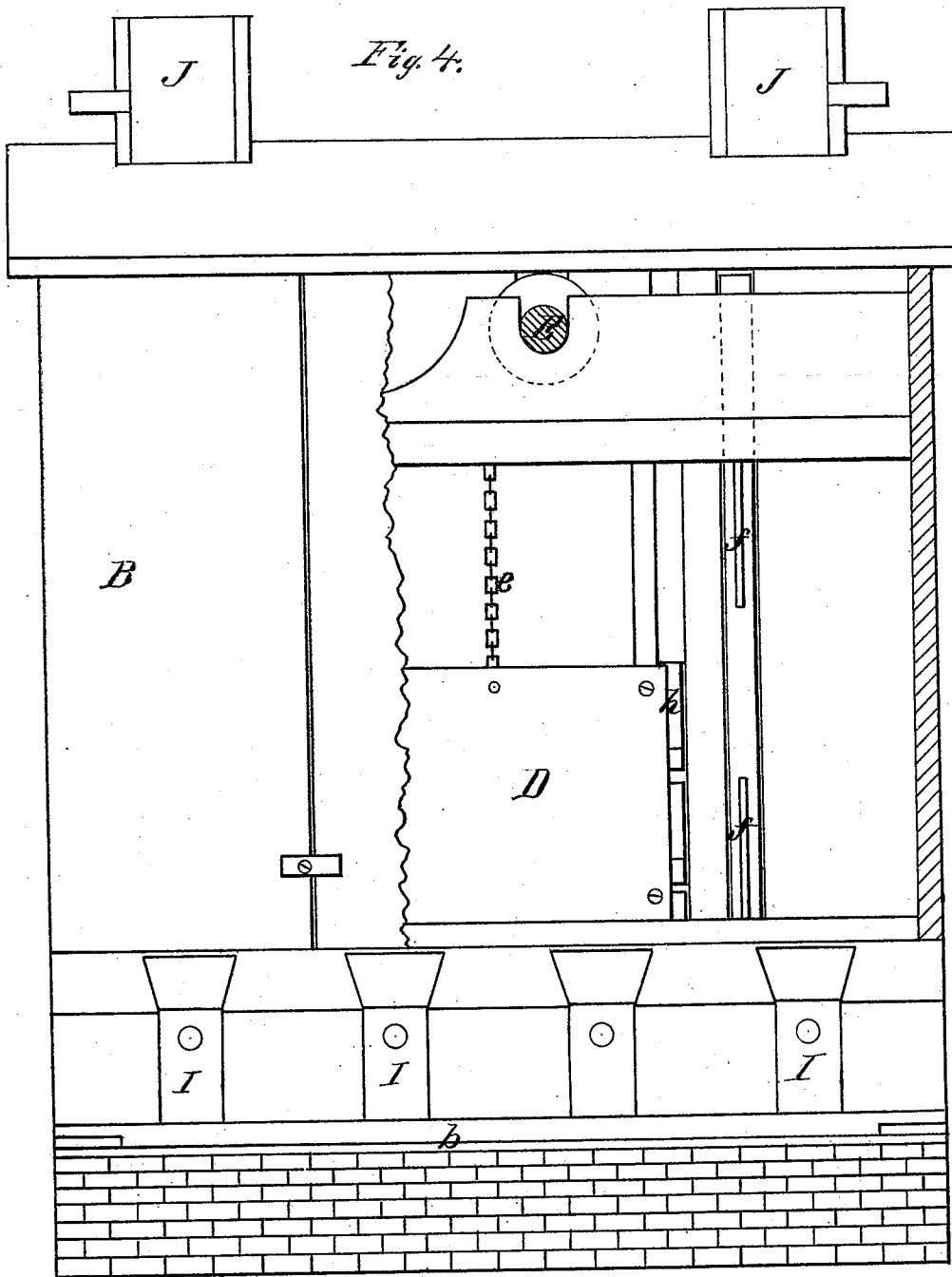
INVENTOR

Samuel W. Craven.
Chapman & Co.
ATTORNEYS

S. W. CRAVEN.
DRYING-HOUSE.

No. 179,275.

Patented June 27, 1876.



WITNESSES

Eng. W. Johnson.
E. H. Bates

INVENTOR

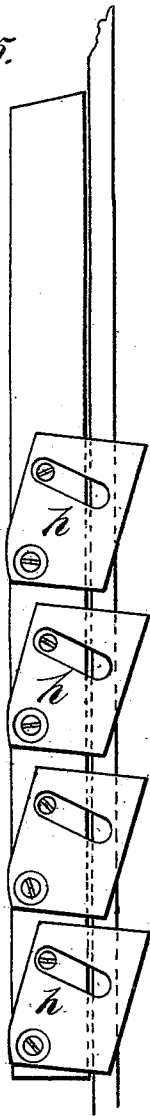
Samuel W. Craven.
Chipman & Son, & Co.,
ATTORNEYS

S. W. CRAVEN.
DRYING-HOUSE.

No. 179,275.

Patented June 27, 1876.

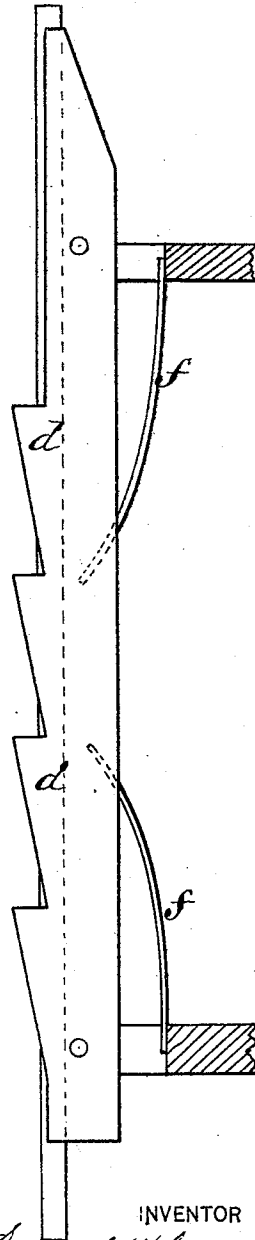
Fig. 5.



WITNESSES

Eng W. Johnson,
E. H. Bates

Fig. 6.



INVENTOR

Samuel W. Craven.
Chipman & Co.,
ATTORNEYS

UNITED STATES PATENT OFFICE.

SAMUEL W. CRAVEN, OF COBDEN, ILLINOIS.

IMPROVEMENT IN DRYING-HOUSES.

Specification forming part of Letters Patent No. **179,275**, dated June 27, 1876; application filed August 7, 1875.

To all whom it may concern:

Be it known that I, SAMUEL W. CRAVEN, of Cobden, in the county of Union and State of Illinois, have invented a new and valuable Improvement in Dry-Houses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a transverse vertical section of my dry-house, and Fig. 2 is a front view of the same. Fig. 3 is a longitudinal vertical sectional view thereof; and Fig. 4 is a side view, part sectional. Figs. 5 and 6 are detail views.

My invention relates to dry-houses particularly for drying fruit; and it consists in the construction and novel arrangement of the dry-house, provided with sliding frames, employed, in connection with yielding sliding rack or latch bars, for raising the trays, springs, and pivoted gravitating-latches, for supporting the trays, all as hereinafter more fully set forth.

In the accompanying drawing, A represents a furnace, of any suitable construction, upon which the dry-house B is erected. In the front of this house is a bottom door, C, and top door C', as shown; and near each side is a vertical partition, *a*, extending from the top to near the bottom *b*, said bottom being made of sheet metal, and separating the dry-house from the furnace.

By means of the partitions *a* there is thus formed a chamber, B', along each side of the dry-house, in which is a sliding frame, D, which frames are suspended by chains *e e* from a shaft, E, passing through the upper part of the dry-house, and having a crank or handle, E', at one end, for turning the same. To each frame D are connected two upright latch-bars, *d d*, which are held outward through slots in the partitions *a a* by means of springs *f f*. In these partitions are also arranged ver-

tical series of gravitating-latches *h h*, which are pivoted at their lower ends, and their upper ends fall by their own gravity inward into the drying-chamber.

The frames D D being lowered, the latches *d* and *h* correspond—that is, they are on horizontal lines with each other. The lower front door C being opened, one tray, G, may be inserted, and supported upon the lower sets of latches *d h*, two of each kind on each side.

By means of the windlass E E' the frames D and latch-bars *d* are raised vertically, lifting the tray G over the next set of gravitating-latches *h*, which fold backward to allow the tray to pass; and as soon as the tray has passed them, they fall inward again of their own gravity to support the tray. The frames D then fall again, the latch-bars *d* yielding to pass the tray. A second tray is then put in on the first set of latch-bars, and then the two elevated in the same manner as described for the first, and so on till the fruit on the first tray is thoroughly dried, when said tray is removed through the upper front door C'.

Along each side of the dry-house is a series of ventilating-slides, I I, one or more of which may be opened to admit the required quantity of cold air to regulate the temperature. J J are chimneys, through which the vapors escape. K is a thermometer in the side of the dry-house, to show the state of the temperature therein.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the frames D, of the latch-bars *d*, springs *f*, and the pivoted gravitating-latches *h*, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL W. CRAVEN.

Witnesses:

L. T. LINNELL,
C. T. PIERCE.